

R. Czubacki, T. Lewiński, *Optimal archgrids: a variational setting*, Structural and Multidisciplinary Optimization 2020,
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Abstract

The paper deals with the variational setting of the optimal archgrid construction. The archgrids, discovered by William Prager and George Rozvany in 1970s, are viewed here as tension-free and bending-free, uniformly stressed grid-shells forming vaults unevenly supported along the closed contour of the basis domain. The optimal archgrids are characterized by the least volume. (...)

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